

mRAID16 QUICK START GUIDE

mRAID16 Quick Start Guide v1.0

Installation Process



Initializing the Storage System

2a Installing guide rails

- The adjustable guide rails are 600 mm (23.62 in.) to 900 mm (35.43 in.) long.
 The adjustable guide rails are preconfigured with positioning pins applicable to square holes only. For round holes, replace the positioning pins.
- •Two paired adjustable guide rails must be positioned exactly parallel to one another.







2b Installing storage systems into the cabinet

- Do not stack components. Install them on guide rails.
- If you remove controllers and disks to facilitate a move, record the location of each component and its slot in
- advance to help when inserting each component back to its correct slot.
- If the controller is inserted into a different location, a system power-on failure may occur.



2c Installing a cable tray



(1) Insert the cable tray into the ball bearing guide rails and the mVault75.

(2) Use a Phillips screwdriver to fasten M6 screws and secure the cable tray.



(3) Install the spring pins to cable trays to secure the cable tray.





When installing the disk drive module, refer to step 3 and step 4 in figure (1).

3 Connecting Cables



3a A generic view of cable connections on the mRAID16

3b (Optional) Connecting ground cables



3c Connecting expansions

- All the EXP ports on the mRID16 can connect only to the PRI ports. An incorrect connection will cause a service interruption.
- For mEAID16 with two or more mRAID16 Expansions, set up multiple loops based on the number of expansion ports on the mRAID16, and evenly allocate those mRAID Expansions to the loops.
- Connect mRAID16 Expansions in one loop over two separate links for optimal network reliability.

Connecting mRAID16 Expansions



Connecting mVault75

- Connect two mVault75s using mini SAS HD electrical cables. The cables must be naturally bent and a minimum of 4" clearance must be reserved in front of each mVault75 for winding cables.
- mRAID16 Expansion and mVault75 cannot be connected to one expansion loop.
- Each expansion loop of mVault75 must be connected to two adjacent ports (excluding ports P1 and P2) of the 12 Gbit/s SAS interface module on a mRAID16, for example, ports P0 and P1 or ports P2 and P3.







3e Connecting power cables

To ensure a high availability of the mRAID16 and to avoid unexpected power failure, connect the mRAID16 to two routes of power supplies.



4 Checking Hardware Installation

4a Checking system installation

Check Item	Normal	Abnormal		
mRAID16	• The system sits stably on the guide rails	• The system slants or cannot be detected		
mRAID 16 Expansion	without displacement.Screws are properly secured.	 Screws are loose or have fallen off. 		

4b Checking cable connections

Check Item	Normal	Abnormal
Ground cable, optical fiber cable, mini SAS HD electrical cable/optical cable network cable, and serial cable	The cable is fully inserted and secured.	The cable is loose or disconnected.
AC power cable	 The AC power cables for each mRAID16 or mRAID16 Expansion are connected to two separate power supplies for redundancy. The AC power cables are secured with plastic buckles. 	 The AC power cables for each mRAID16 or expansion are connected to the same power supply. The AC power cables are not secured with plastic buckles.

5 Powering On the mRAID16 and mRAID16 Expansion

- To avoid electric shocks, do not wear an ESD wrist strap when the mRAID16 is powering on.
- Do not adjust mini SAS HD electrical cable/optical cable connections between mRAID16 and mRAID16 Expansion after power-on.

The power-on process requires 5-15 minutes. Then the mRAID16 Expansions start power-on automatically.

- Follow the correct power-on sequence: Turn on the external power supplies (mRAID16 Expansions first and then mRAID16s). → Press the power buttons on the mRAID16s. → Turn on the FC switch. → Turn on the application servers.
- Follow the correct power-off sequence: Stop host services. → Press and hold down the power buttons on the mRAID16s until it is completely powered off (five seconds). → Disconnect the mRAID16s and the mRAID16 Expansions from their power supplies.

5a Switching on external power supplies

Turn on external power supplies in the following sequence:

mRAID16 Expansions \rightarrow mRAID16 \rightarrow FC switches (for a SAN) \rightarrow application servers.





5b Pressing the power button on mRAID16

	octive	active	active	mRAID16 active	
-1	active	active	active	active	
	octive	active	active	active	

5c Checking status indicators on the mRAID16 and expansions

After you have powered on a mRAID16 expansion or the mRAID16, check that all disks are working correctly (no alarm/location indicator is steady red).

	octive	octive	octive	mRAID16
_ -	active	active	active	Alarm indicator of the mRAID16: off
	octive	active	octiue Pow	ver indicator of the mRAID16:

	active	ochun	orting	Expansion
			Al	arm indicator of the RAID16 expansion: of
i c	active	active	active	
3 c	active	active	octive	RAID16 expansion: eady green
() 9	active	octiue	octive	octive
e	octive	active	octive	octive
i q	active	active	octive	active



6 Initializing the mRAID16

After you have powered on the mRAID16, complete the following initialization steps:

- 1. Log in to the ActiveManager on the maintenance terminal using the IP address of the management network port.
- 2. Follow the **Settings > Initial Configuration** wizard to change the basic information, configure the system time, disk domain, alarm notification and import license files.

NOTE

- The default user name and password of the mRAID16 are admin and Active@active respectively.
- The command to change password is change user password.



www.active-storage.com

Copyright © Active Storage, LLC. 2016 – All Rights Reserved. All trademarks, tradenames, and copyrights are property of their respective holders.